

Procesamiento Datos tiempo real

Apache Nifi

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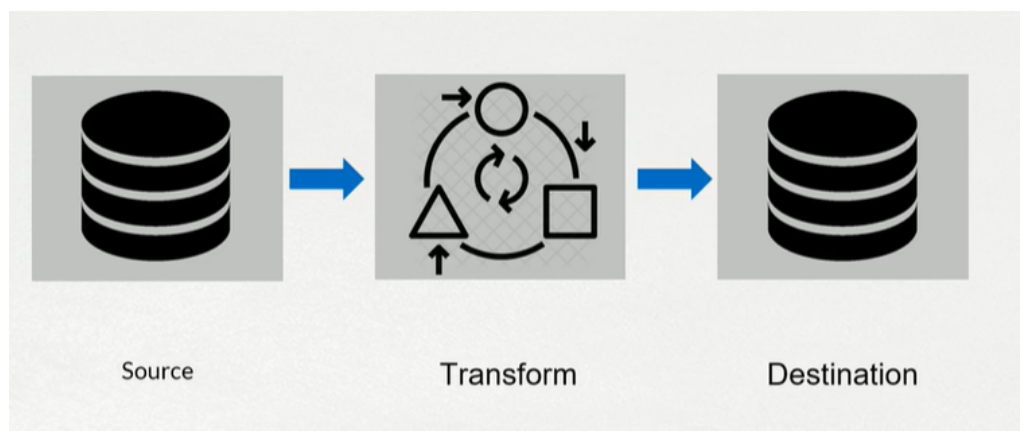
Teoría

Qué es un flujo de datos (Dataflow)

https://www.youtube.com/watch?v=JARoqBDSakI&ab_channel=AprenderBigData

Movimiento de datos/contenidos de un origen a un destino.

Los datos pueden ser CSV, JSON, XML, HTTP, imagen, video, etc...



Qué es Apache Nifi

Proyecto de Apache diseñado para automatizar el movimiento de datos.
Permite operaciones de extracción, transformación y carga de datos.

Interfaz web de Apache Nifi

Interfaz potente e intuitiva

Diseñar y configurar flujos de datos de forma visual

Arrancar y para los procesos del flujo de datos

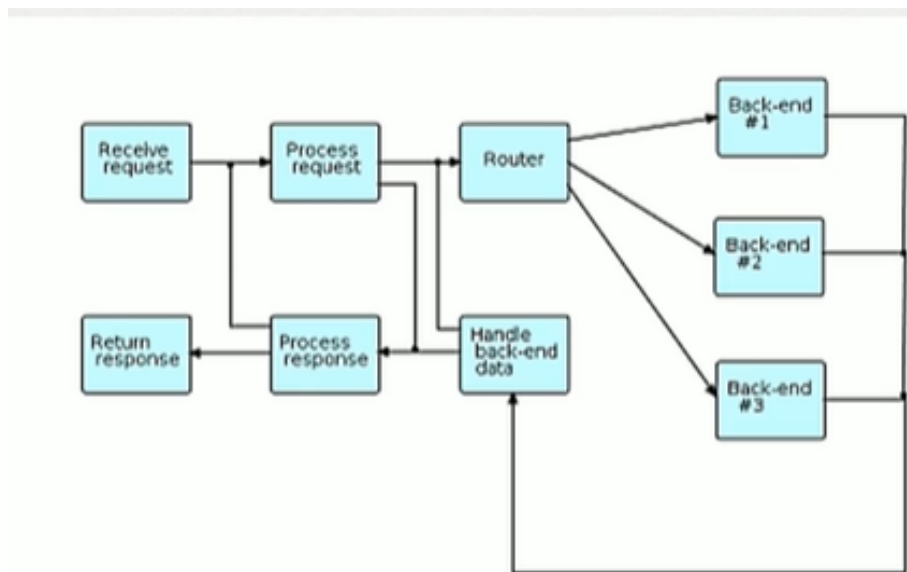
Monitorizar el estado de los procesos y los posibles errores que se produzcan

Programación Basada en el Flujo (FBP)

- Nifi está basado en la programación basada en el flujo (FBP)
- Aplicaciones como redes de procesos de “caja negra”.

En caso de nifi, estas cajas negras, serían los procesadores.

El intercambio de datos entre estos procesadores se hace mediante conexiones, que se define externamente al procesador



¿Qué es el Nifi Flow?

Es la topología que definimos en Nifi. Definición del flujo de datos que se implementa en apache Nifi.

Indica la forma en la que se deben de gestionar los datos

FlowFiles

Paquete de datos que viaja por el flujo de Nifi (ficheros de datos que en Nifi los llama FlowFiles).

Se compone:

- Contenido
- Atributos : información sobre el contenido

Ciclo de vida del FlowFile

Persistencia en disco

Se transfiere por referencia

Un nuevo FlowFile se crea cuando el contenido de un FlowFile existente se modifica o se ingesta nuevos datos

Ciclo de vida del FlowFile

Persistencia en disco

Se transfiere por referencia

Un nuevo FlowFile se crea cuando el contenido de un FlowFile existente se modifica o se ingesta nuevos datos

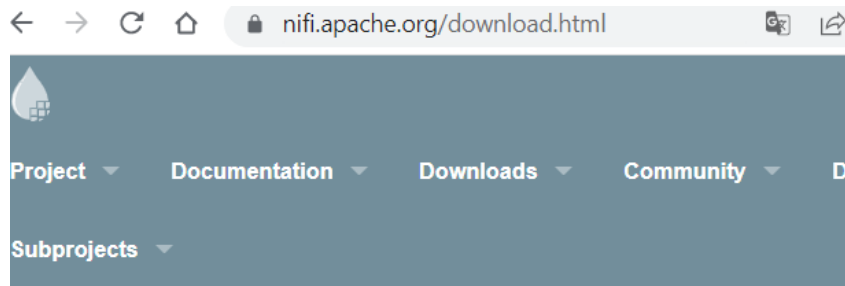
La modificación de los atributos de un FlowFile existente no hace que se cree un nuevo FlowFile

Práctica

Instalación

Instalar Apache Nifi:

<https://nifi.apache.org/download.html>



Releases

. 1.16.2

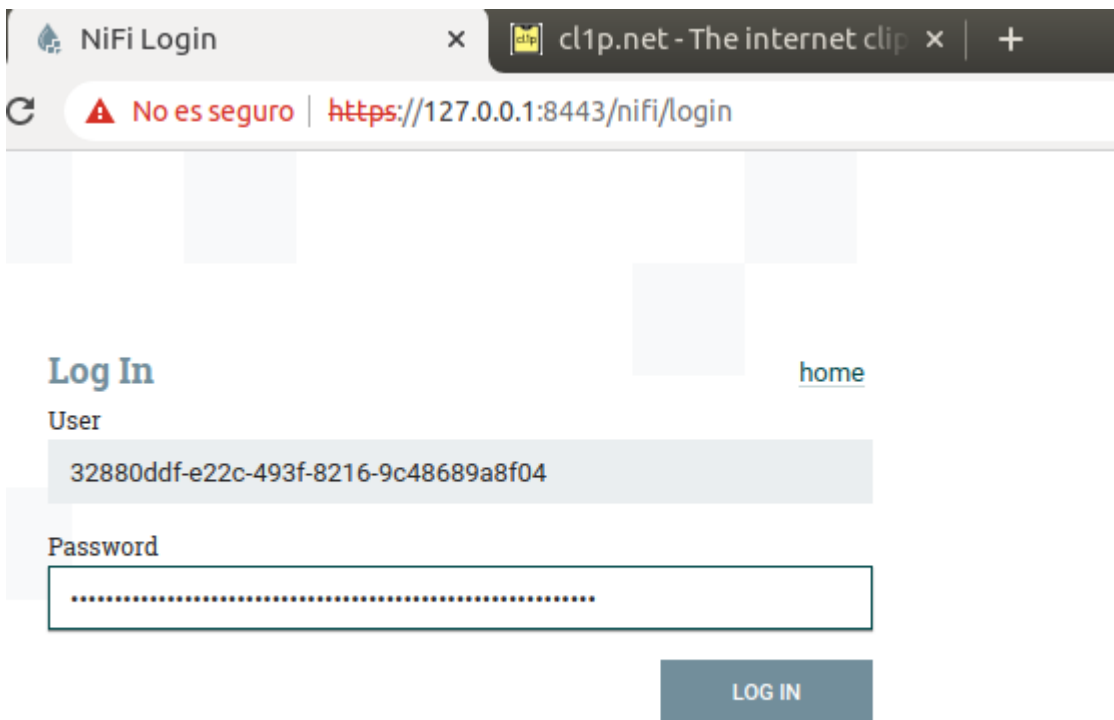
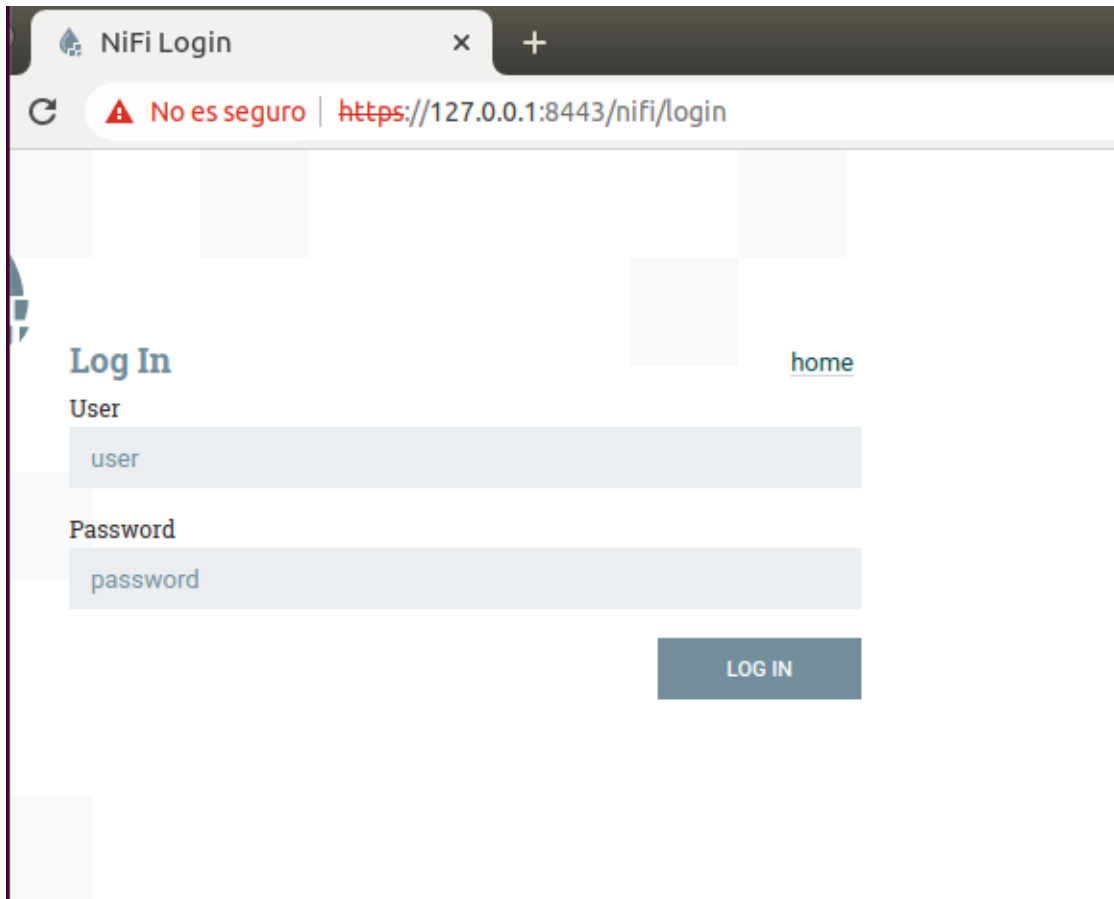
- Released May 25, 2022
- Sources:
 - [nifi-1.16.2-source-release.zip](#) (asc, sha256, sha512)
- Binaries
 - [nifi-1.16.2-bin.tar.gz](#) (asc, sha256, sha512)
 - [nifi-1.16.2-bin.zip](#) (asc, sha256, sha512)
 - [nifi-toolkit-1.16.2-bin.tar.gz](#) (asc, sha256, sha512)
 - [nifi-toolkit-1.16.2-bin.zip](#) (asc, sha256, sha512)
 - [nifi-stateless-1.16.2-bin.tar.gz](#) (asc, sha256, sha512)
- [Release Notes](#)
- [Migration Guidance](#)

Elegimos el más reciente
Descomprimos y abrimos en bin

1. Iniciar Nifi:
Windows: "run-nifi.bat"
Linux/Mac: "nifi.sh start"

En caso de estar en Linux o Mac , tenemos que ir a ese directorio de bin en la línea de comando y poner "**nifi.sh start**".

2. Interfaz web
Nos pide un login p default



Cambiamos el usuario por defecto

```

root@alexis-VirtualBox:/home/alexis/Descargas/nifi-1.16.2/bin# ./nifi.sh set-single-user-credentials alexis 12345678901234

Java home: /usr/lib/jvm/java-8-openjdk-amd64
NiFi home: /home/alexis/Descargas/nifi-1.16.2

Bootstrap Config File: /home/alexis/Descargas/nifi-1.16.2/conf/bootstrap.conf

Login Identity Providers Processed [/home/alexis/Descargas/nifi-1.16.2/conf/login-identity-providers.xml]

root@alexis-VirtualBox:/home/alexis/Descargas/nifi-1.16.2/bin#


```

```

-->
-<loginIdentityProviders>
  -<!--
    Single User Login Identity Provider supporting automated generation of Username and Password
    The provider will write the following log messages when 'Username' and 'Password' are empty:
    Generated Username [USERNAME]
    Generated Password [PASSWORD]
    The 'Username' will be a random UUID and the 'Password' will be stored using bcrypt hashing
  -->
  -<provider>
    <identifier>single-user-provider</identifier>
    -<class>
      org.apache.nifi.authentication.single.user.SingleUserLoginIdentityProvider
    </class>
    <property name="Username">alexis</property>
    -<property name="Password">
      $2b$12$0Asr6i0Y4CBn.5Q9VoP.ge8qeGt0ykbcjQMcqYTk8aj.c/NUAf6sm
    </property>
    </provider>
  -<!--

```

← → ↻ No es seguro | https://127.0.0.1:8443/nifi/login

 Log In [home](#)

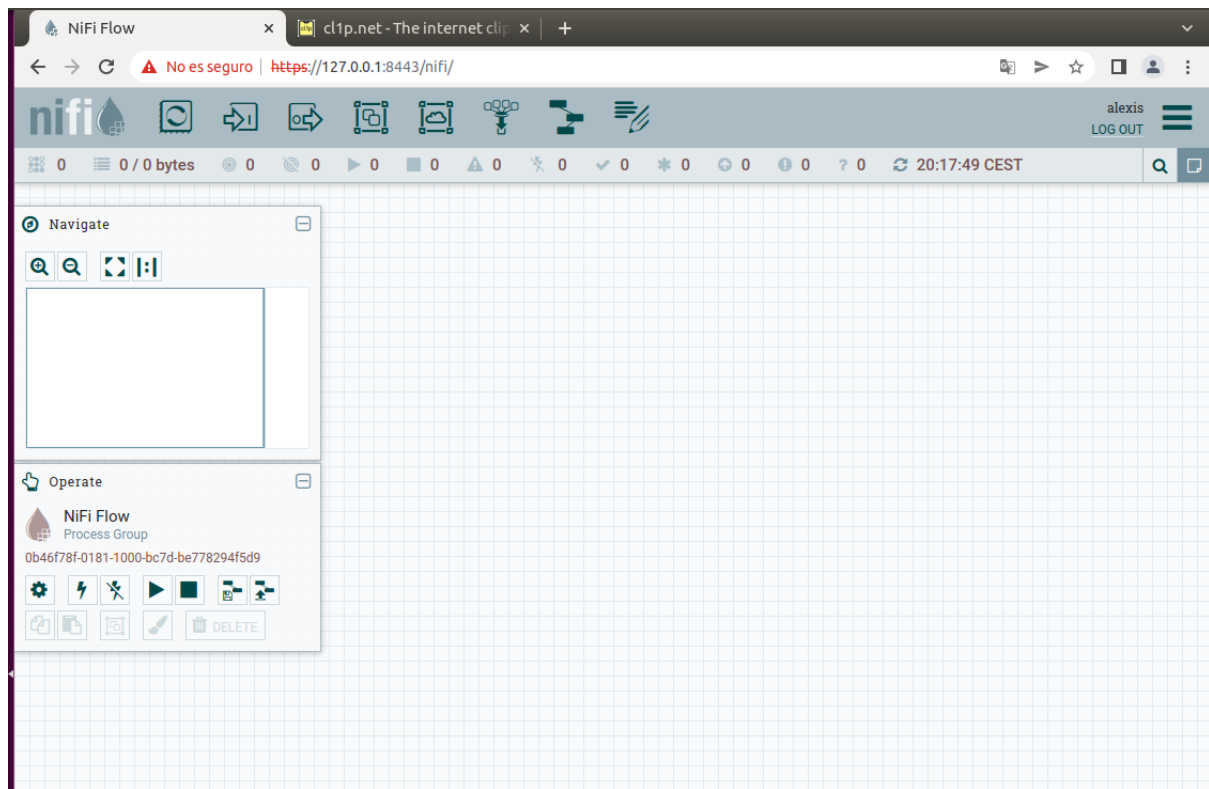
User

alexis

Password

.....

LOG IN



Creación flujo sencillo

Cogemos un archivo de un origen (nuestro ordenador , de un directorio concreto) y lo va a mover sin realizar ningún tipo de transformación a un destino diferente.

Arrastramos un procesador



Nos abre esta ventana, todas estas distintas opciones para utilizar

Add Processor

Source

all groups

amazon

attributes

avro

aws

azure

cloud

consume

database

delete

fetch

get

ingest

json

listen

logs

message

microsoft

pubsub

put

record

restricted

source


storage

text

update

Displaying 1 of 309

getFile

Type ^	Version	Tags
 GetFile	1.16.2	ingress, input, restricted, get, fil...

GetFile 1.16.2

org.apache.nifi - nifi-standard-nar

Creates FlowFiles from files in a directory. NiFi will ignore files it doesn't have at least read permissions for.

CANCEL

ADD

Add Processor

Source

all groups

amazon attributes
avro aws azure
cloud consume
database delete
fetch get ingest
json listen logs
message
microsoft pubsub
put record
restricted source
storage text
update

Displaying 1 of 309

putfil

Type ^	Version	Tags
PutFile	1.16.2	restricted, files, archive, copy, p...

PutFile 1.16.2

org.apache.nifi - nifi-standard-nar

Writes the contents of a FlowFile to the local file system

CANCEL

ADD

Ya tenemos los dos procesadores

The screenshot displays the Apache NiFi web console interface. At the top, the navigation bar includes the NiFi logo, a set of icons for various actions (refresh, undo, redo, copy, paste, delete, etc.), the user name 'alexis', and a 'LOG OUT' button. Below the navigation bar, a status bar shows system metrics: '0 / 0 bytes', '0' (CPU), '0' (memory), '0' (disk), '0' (network), '0' (tasks), '2' (warnings), '0' (errors), '0' (successes), '0' (failures), '0' (pending), '0' (unknown), and the current time '20:27:22 CEST'. A search bar is located on the right side of the status bar.

The main content area is divided into two panels. The left panel, titled 'Navigate', contains a search bar and a list of components. The right panel, titled 'Operate', contains a list of components. The 'Operate' panel shows two processors: 'GetFile' and 'PutFile'. Both processors are version 1.16.2 and are part of the 'org.apache.nifi - nifi-standard-nar' bundle. The 'GetFile' processor has the following statistics:

Statistic	Value	Unit
In	0	(0 bytes)
Read/Write	0 bytes / 0 bytes	5 min
Out	0	(0 bytes)
Tasks/Time	0 / 00:00:00.000	5 min

The 'PutFile' processor has the following statistics:

Statistic	Value	Unit
In	0	(0 bytes)
Read/Write	0 bytes / 0 bytes	5 min
Out	0	(0 bytes)
Tasks/Time	0 / 00:00:00.000	5 min

Le pasamos el directorio de las carpetas que vamos a utilizar para este proceso de datos.

Configure Processor | GetFile 1.16.2

Invalid

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Required field

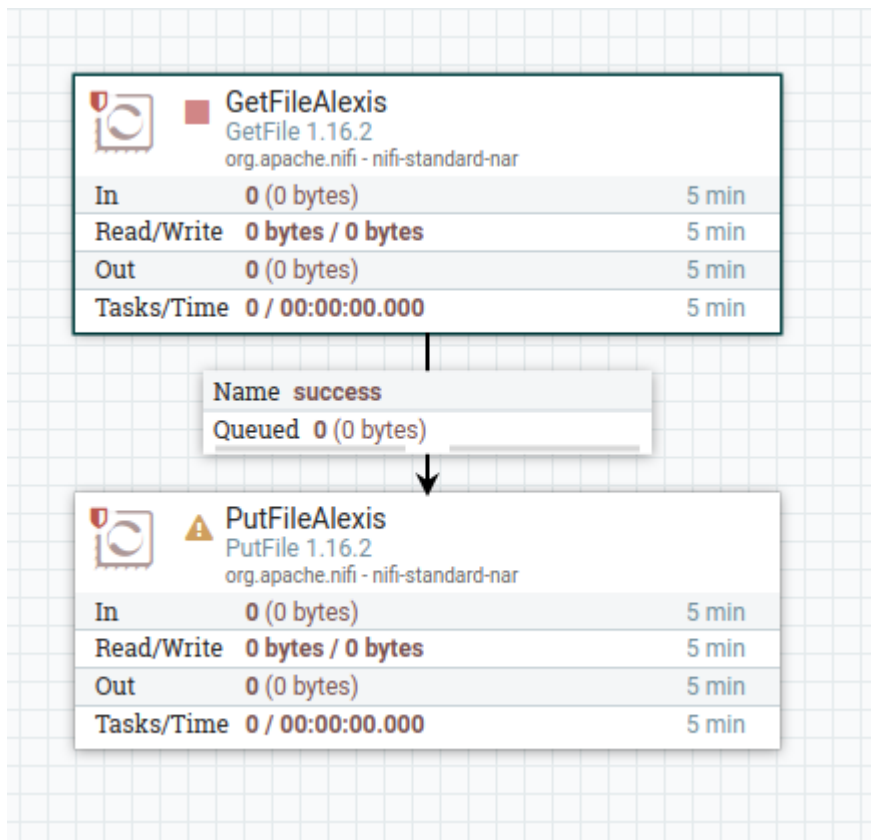
✓

+

Property		Value
Input Directory	?	/home/alexis/Escritorio/inputAlexis
File Filter	?	[^\\].*
Path Filter	?	No value set
Batch Size	?	10
Keep Source File	?	false
Recurse Subdirectories	?	true
Polling Interval	?	0 sec
Ignore Hidden Files	?	true
Minimum File Age	?	0 sec
Maximum File Age	?	No value set
Minimum File Size	?	0 B
Maximum File Size	?	No value set


CANCEL

APPLY



Nos da una advertencia en el de abajo y click derecho configuración, marcamos que cuando acabe o haya algún error, que termine la relación

Configure Processor | PutFile 1.16.2

 Invalid

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Automatically Terminate / Retry Relationships 

failure

☒ terminate ☐ retry

Files that could not be written to the output directory for some reason are transferred to this relationship

success

☒ terminate ☐ retry

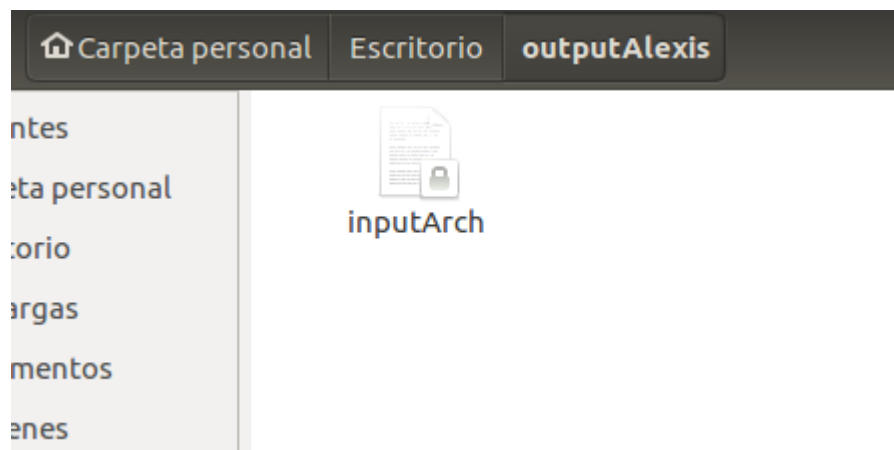
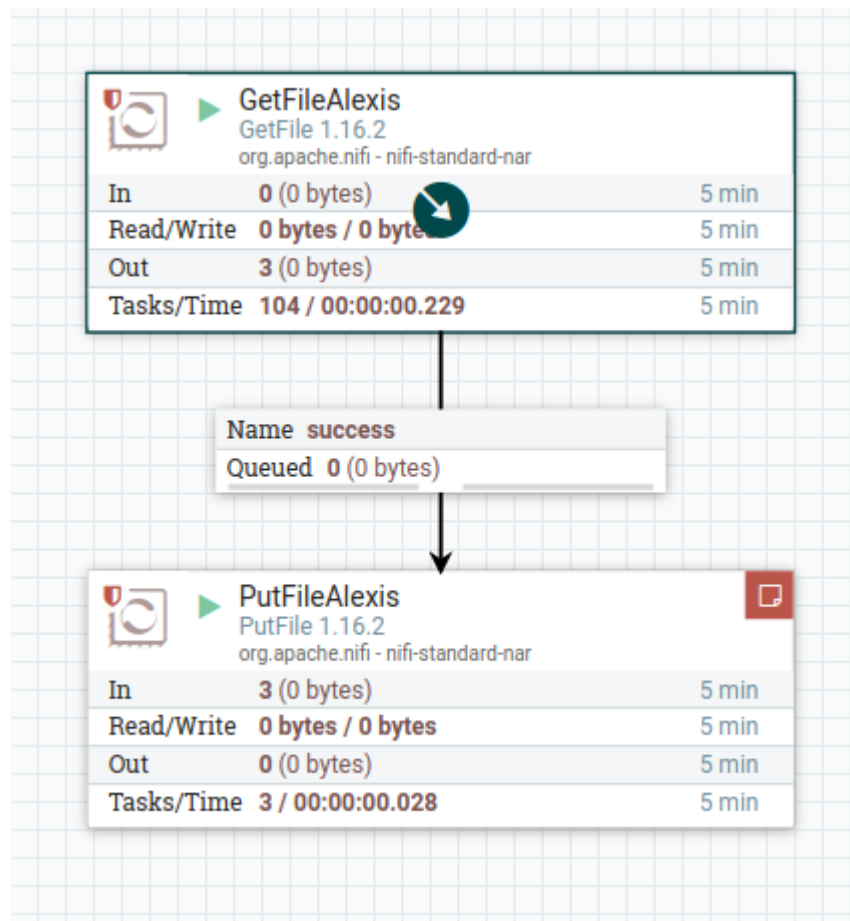
Files that have been successfully written to the output directory are transferred to this relationship

CANCEL

APPLY

Los arrancamos

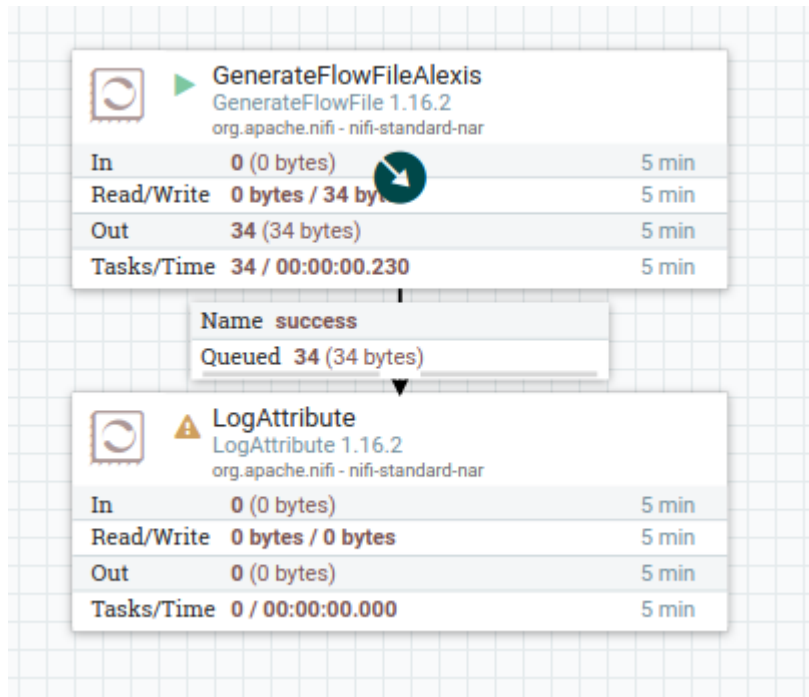
Y todos los ficheros que creamos en Input, al instante los pasa al output



Esta herramienta nos da la opción de tiempo para hacer este proceso, una actualización ya sea de segundos o minutos .

Generar FlowFile

Procesador de tipo GenerateFlowFile más un LogAttribute que vale para leer y recopilar datos



En configuraciones

Configuración de tiempo de **5 segundos** para que genere un carácter y **2 Task**.
El tamaño **1B** para generar un único carácter

Configure Processor | GenerateFlowFile 1.16.2

Stopped

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Scheduling Strategy ?

Timer driven

Concurrent Tasks ?

2

Execution ?

All nodes

Run Duration ?

0ms 25ms 50ms 100ms 250ms 500ms 1s 2s

Lower latencyHigher throughput

Run Schedule ?

5 sec

CANCEL

APPLY

Configure Processor | GenerateFlowFile 1.16.2

Stopped

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Required field

⊙ +

Property	Value
File Size	1B
Batch Size	1
Data Format	Text
Unique FlowFiles	false
Custom Text	No value set
Character Set	UTF-8
Mime Type	No value set

CANCEL

APPLY

Los que generó

success

Displaying 44 of 44 (44.00 bytes)

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration	Penalized	
i	1	31eb89cc-027a-...	31eb89cc-027a-...	1.00 bytes	00:03:11.514	00:03:11.522	No	👤 👁 📄
i	2	29c0522a-71ac-...	29c0522a-71ac-...	1.00 bytes	00:03:06.458	00:03:06.458	No	👤 👁 📄
i	3	a175fafa-e547-...	a175fafa-e547-...	1.00 bytes	00:03:01.451	00:03:01.451	No	👤 👁 📄
i	4	7769a047-53a7-...	7769a047-53a7-...	1.00 bytes	00:02:56.447	00:02:56.447	No	👤 👁 📄
i	5	50e9850a-25c3-...	50e9850a-25c3-...	1.00 bytes	00:02:51.444	00:02:51.444	No	👤 👁 📄
i	6	95b2f394-f3c3-...	95b2f394-f3c3-...	1.00 bytes	00:02:46.442	00:02:46.442	No	👤 👁 📄
i	7	4dab4ba6-a62c-...	4dab4ba6-a62c-...	1.00 bytes	00:02:41.440	00:02:41.440	No	👤 👁 📄
i	8	942cecc1-f005-...	942cecc1-f005-...	1.00 bytes	00:02:36.435	00:02:36.435	No	👤 👁 📄
i	9	330887ee-44ad-...	330887ee-44ad-...	1.00 bytes	00:02:31.433	00:02:31.434	No	👤 👁 📄
i	10	7aed90a8-0f8e-...	7aed90a8-0f8e-...	1.00 bytes	00:02:26.424	00:02:26.424	No	👤 👁 📄
i	11	c6df1ed0-13f1-...	c6df1ed0-13f1-...	1.00 bytes	00:02:21.423	00:02:21.423	No	👤 👁 📄
i	12	25eca40c-f812-...	25eca40c-f812-...	1.00 bytes	00:02:16.421	00:02:16.421	No	👤 👁 📄
i	13	2c49c747-3f41-...	2c49c747-3f41-...	1.00 bytes	00:02:11.419	00:02:11.419	No	👤 👁 📄
i	14	9ce7fbfa-f96c-4...	9ce7fbfa-f96c-4...	1.00 bytes	00:02:06.415	00:02:06.415	No	👤 👁 📄
i	15	039d03c1-2804-...	039d03c1-2804-...	1.00 bytes	00:02:01.407	00:02:01.408	No	👤 👁 📄
i	16	7475d3fd-2b3e-...	7475d3fd-2b3e-...	1.00 bytes	00:01:56.397	00:01:56.397	No	👤 👁 📄
i	17	10060643-6b62-...	10060643-6b62-...	1.00 bytes	00:01:51.395	00:01:51.395	No	👤 👁 📄
i	18	79d09641-9b13-...	79d09641-9b13-...	1.00 bytes	00:01:46.393	00:01:46.393	No	👤 👁 📄
i	19	a8d2a280-97c9-...	a8d2a280-97c9-...	1.00 bytes	00:01:41.392	00:01:41.392	No	👤 👁 📄
i	20	9107b55a-5443-...	9107b55a-5443-...	1.00 bytes	00:01:36.386	00:01:36.387	No	👤 👁 📄
i	21	88c59f01-05d4-...	88c59f01-05d4-...	1.00 bytes	00:01:31.383	00:01:31.384	No	👤 👁 📄
i	22	00fc5bf2-c12a-...	00fc5bf2-c12a-...	1.00 bytes	00:01:26.378	00:01:26.378	No	👤 👁 📄
i	23	d3d4d02a-566b-...	d3d4d02a-566b-...	1.00 bytes	00:03:11.521	00:03:11.522	No	👤 👁 📄
i	24	8cba97d3-203e-...	8cba97d3-203e-...	1.00 bytes	00:03:06.491	00:03:06.492	No	👤 👁 📄
i	25	5872e1a7-7793-...	5872e1a7-7793-...	1.00 bytes	00:03:01.487	00:03:01.487	No	👤 👁 📄


Le damos al icono del ojo y nos abre otra pestaña donde nos muestra el dato generado

NiFi Flow

NiFi

cl1p.net - The internet cli

No es seguro | <https://127.0.0.1:8443/nifi-content-viewer/?ref=https%3A%2F%2F127.0.0.1...>



View as: original

Filename: 31eb89cc-027a-437e-a64e-417df8aadb8e
Content Type: text/plain

1

s

Status History

Status History

Source Name

GenerateFlowFileAlexis

Destination Name

LogAttribute

Id

0c02033a-0181-1000-c8b8-d30970c0bdb5

Group Id

0b46f78f-0181-1000-bc7d-be778294f5d9

Name

success

Start

05/28/2022 20:06:11.830

End

05/28/2022 20:53:12.134

NiFi

Min / Max / Mean

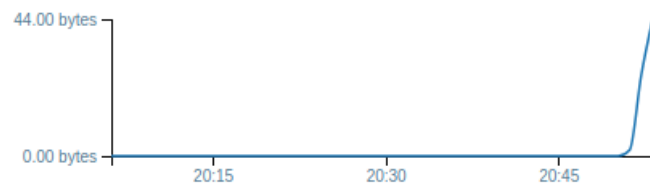
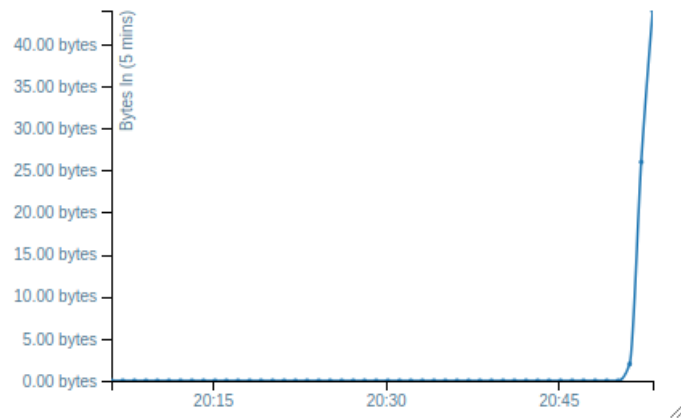
0.00 bytes / 44.00 bytes / 1.50 bytes

☒ NiFi



Last updated: 20:53:57 CEST

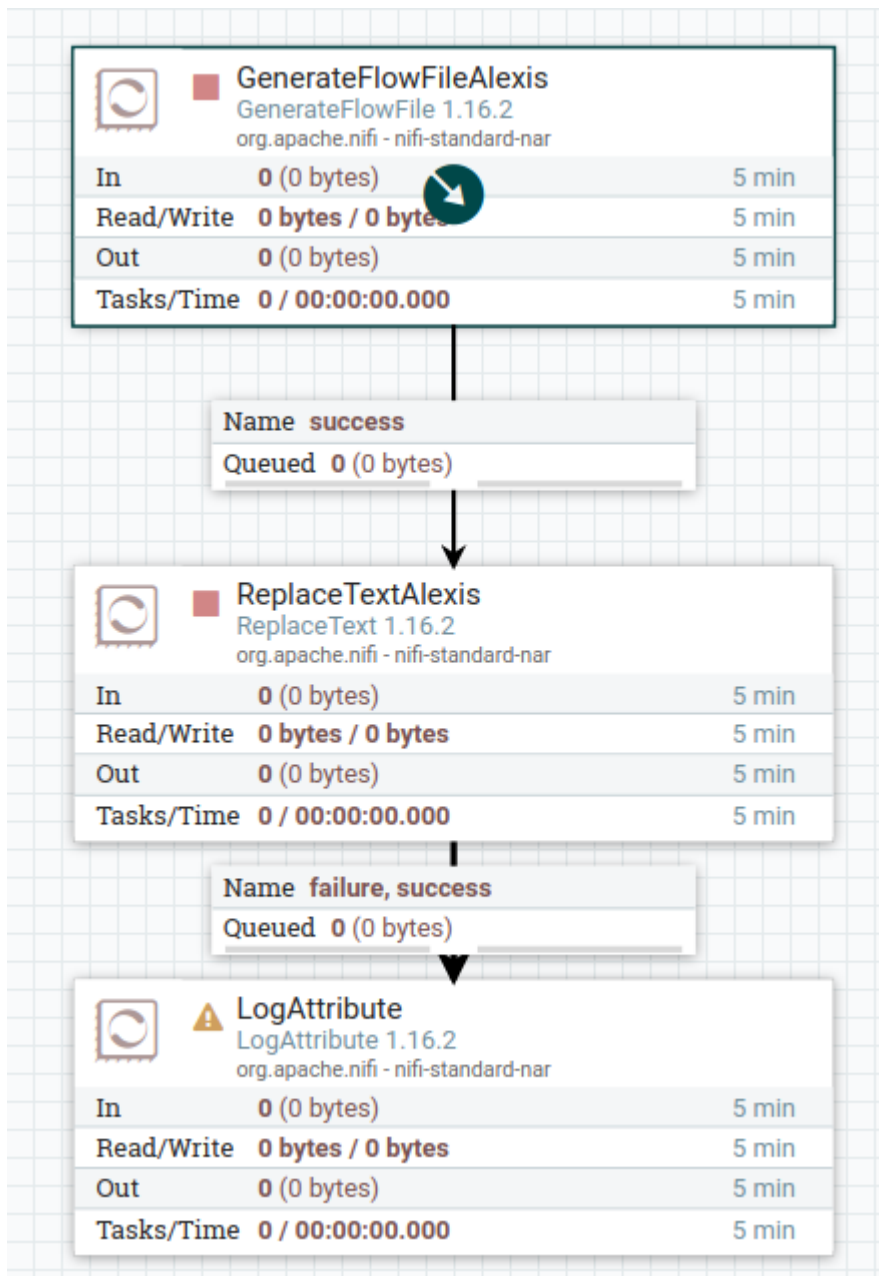
Bytes In (5 mins)



CLOSE

Reemplazar datos

Añadimos otro proceso de reemplazar los datos generados



Configuración

Configure Processor | ReplaceText 1.16.2

Stopped

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Required field




Property		Value
Search Value		(?s)(^.*\$)
Replacement Value		a,l,e
Character Set		UTF-8
Maximum Buffer Size		
Replacement Strategy		Always Replace
Evaluation Mode		
Line-by-Line Evaluation Mode		

CANCEL

OK

CANCEL


APPLY

 **GenerateFlowFileAlexis**
GenerateFlowFile 1.16.2
org.apache.nifi - nifi-standard-nar

In	0 (0 bytes)	5 min
Read/Write	0 bytes / 14 bytes	5 min
Out	14 (14 bytes)	5 min
Tasks/Time	14 / 00:00:00.111	5 min

Name **success**


Queued 0 (0 bytes)

 **ReplaceTextAlexis**
ReplaceText 1.16.2
org.apache.nifi - nifi-standard-nar

In	14 (14 bytes)	5 min
Read/Write	14 bytes / 70 bytes	5 min
Out	14 (70 bytes)	5 min
Tasks/Time	14 / 00:00:00.070	5 min

Name **failure, success**

Queued 14 (70 bytes)

 **LogAttribute**
LogAttribute 1.16.2
org.apache.nifi - nifi-standard-nar

In	0 (0 bytes)	5 min
Read/Write	0 bytes / 0 bytes	5 min
Out	0 (0 bytes)	5 min
Tasks/Time	0 / 00:00:00.000	5 min

failure, success

Displaying 30 of 30 (150.00 bytes)

The source of this queue is currently running. This listing...

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration	Penalized	
i	1	c96ec44f-4dee-...	c96ec44f-4dee-...	5.00 bytes	00:01:23.658	00:01:26.951	No	👤 👁 📄
i	2	88e4ca51-f33b-...	88e4ca51-f33b-...	5.00 bytes	00:01:21.932	00:01:21.944	No	👤 👁 📄
i	3	77e76ee6-f2f6-...	77e76ee6-f2f6-...	5.00 bytes	00:01:21.905	00:01:21.919	No	👤 👁 📄
i	4	1f01738b-00d7-...	1f01738b-00d7-...	5.00 bytes	00:01:16.926	00:01:16.940	No	👤 👁 📄
i	5	2b8264cb-1756-...	2b8264cb-1756-...	5.00 bytes	00:01:16.912	00:01:16.915	No	👤 👁 📄
i	6	91eae274-720c-...	91eae274-720c-...	5.00 bytes	00:01:11.914	00:01:11.933	No	👤 👁 📄
i	7	5e8181a5-b5e0-...	5e8181a5-b5e0-...	5.00 bytes	00:01:11.909	00:01:11.913	No	👤 👁 📄
i	8	f775a598-b489-...	f775a598-b489-...	5.00 bytes	00:01:06.900	00:01:06.922	No	👤 👁 📄
i	9	40ad0403-b243-...	40ad0403-b243-...	5.00 bytes	00:01:01.898	00:01:01.909	No	👤 👁 📄
i	10	88b68a95-ce27-...	88b68a95-ce27-...	5.00 bytes	00:00:56.876	00:00:56.906	No	👤 👁 📄
i	11	e9c43c9b-a62c-...	e9c43c9b-a62c-...	5.00 bytes	00:00:51.884	00:00:51.898	No	👤 👁 📄
i	12	5f1545eb-5e29-...	5f1545eb-5e29-...	5.00 bytes	00:00:46.865	00:00:46.890	No	👤 👁 📄
i	13	2ac2abd2-5c0a-...	2ac2abd2-5c0a-...	5.00 bytes	00:00:41.875	00:00:41.877	No	👤 👁 📄
i	14	4894fab1-b28e-...	4894fab1-b28e-...	5.00 bytes	00:00:41.871	00:00:41.874	No	👤 👁 📄
i	15	af5d9c85-289e-...	af5d9c85-289e-...	5.00 bytes	00:00:36.870	00:00:36.875	No	👤 👁 📄
i	16	c9fa2293-bb8a-...	c9fa2293-bb8a-...	5.00 bytes	00:00:31.858	00:00:31.874	No	👤 👁 📄
i	17	7e92f904-4484-...	7e92f904-4484-...	5.00 bytes	00:00:26.860	00:00:26.872	No	👤 👁 📄
i	18	656e04e0-acc8-...	656e04e0-acc8-...	5.00 bytes	00:00:21.846	00:00:21.864	No	👤 👁 📄
i	19	66e78056-0613-...	66e78056-0613-...	5.00 bytes	00:00:16.854	00:00:16.864	No	👤 👁 📄
i	20	d2d5364c-ac73-...	d2d5364c-ac73-...	5.00 bytes	00:00:16.840	00:00:16.849	No	👤 👁 📄
i	21	66867952-93b6-...	66867952-93b6-...	5.00 bytes	00:01:23.671	00:01:26.950	No	👤 👁 📄
i	22	d31aadb6-693c-...	d31aadb6-693c-...	5.00 bytes	00:01:06.901	00:01:06.910	No	👤 👁 📄
i	23	2787041b-1fba-...	2787041b-1fba-...	5.00 bytes	00:01:01.900	00:01:01.907	No	👤 👁 📄
i	24	e03e0136-4762-...	e03e0136-4762-...	5.00 bytes	00:00:56.890	00:00:56.904	No	👤 👁 📄
i	25	2ff977f4-6c8b-4...	2ff977f4-6c8b-4...	5.00 bytes	00:00:51.885	00:00:51.886	No	👤 👁 📄

Reemplaza por lo incorporado en la configuración

NiFi Flow


NiFi

cl1p.net - The internet cli

← → ↻

⚠ No es seguro | <https://127.0.0.1:8443/nifi-content-viewer/?ref=https%3A%2F%2F127.0.0....>

🔍 ⌕ ⚙



View as: original

Filename: c96ec44f-4dee-4e9a-ac1c-39696dbbf5e
Content Type: text/plain

1

a, l, e

Añadimos a lo anterior dos procesadores más. De tipo ExtractText y ReplaceText

Add Processor

Source

all groups

amazon

attributes

avro

aws

azure

cloud

consume

database

delete

fetch

get

ingest

json

listen

logs

message

microsoft

pubsub

put

record

restricted

source

storage

text

update

Displaying 8 of 309

Type ^	Version	Tags
ExtractAvroMetadata	1.16.2	schema, metadata, avro
ExtractCCDAAttributes	1.16.2	CCDA, extract, attributes, health...
ExtractEmailAttachments	1.16.2	split, email
ExtractEmailHeaders	1.16.2	split, email
ExtractGrok	1.16.2	delimiter, extract, log, grok, text, p...
ExtractHL7Attributes	1.16.2	HL7, extract, attributes, health I...
ExtractTNEFAttachments	1.16.2	split, email
ExtractText	1.16.2	Regular Expression, regex, extra...

extract

ExtractText 1.16.2

org.apache.nifi - nifi-standard-nar

Evaluates one or more Regular Expressions against the content of a FlowFile. The results of those Regular Expressions are assigned to FlowFile Attributes. Regular Expressions are entered by adding user-defined properties; the name of the property maps to the Attribute Name into which the result will be placed. The attributes are generated differently based on the enabling of named ...

CANCEL

ADD

Add Processor

Source

all groups

amazon attributes
avro aws azure
cloud consume
database delete
fetch get ingest
json listen logs
message
microsoft pubsub
put record
restricted source
storage text
update

Displaying 2 of 309

ReplaceText

Type	Version	Tags
ReplaceText	1.16.2	Regular Expression, Replace, R...
ReplaceTextWithMapping	1.16.2	Regular Expression, Replace, R...

ReplaceText 1.16.2 org.apache.nifi - nifi-standard-nar

Updates the content of a FlowFile by evaluating a Regular Expression (regex) against it and replacing the section of the content that matches the Regular Expression with some alternate value.

Añadimos las conexiones

Create Connection

DETAILS

SETTINGS

From Processor
ReplaceTextAlexis
ReplaceText

To Processor
ExtractTextAlexis2
ExtractText

Within Group
NiFi Flow

Within Group
NiFi Flow

For Relationships
☒ failure
☒ success

Create Connection

DETAILS

SETTINGS

From Processor

ExtractTextAlexis2

ExtractText

Within Group

NIFI Flow

For Relationships

☒ matched

☒ unmatched

To Processor

ReplaceTextAlexis2

ReplaceText

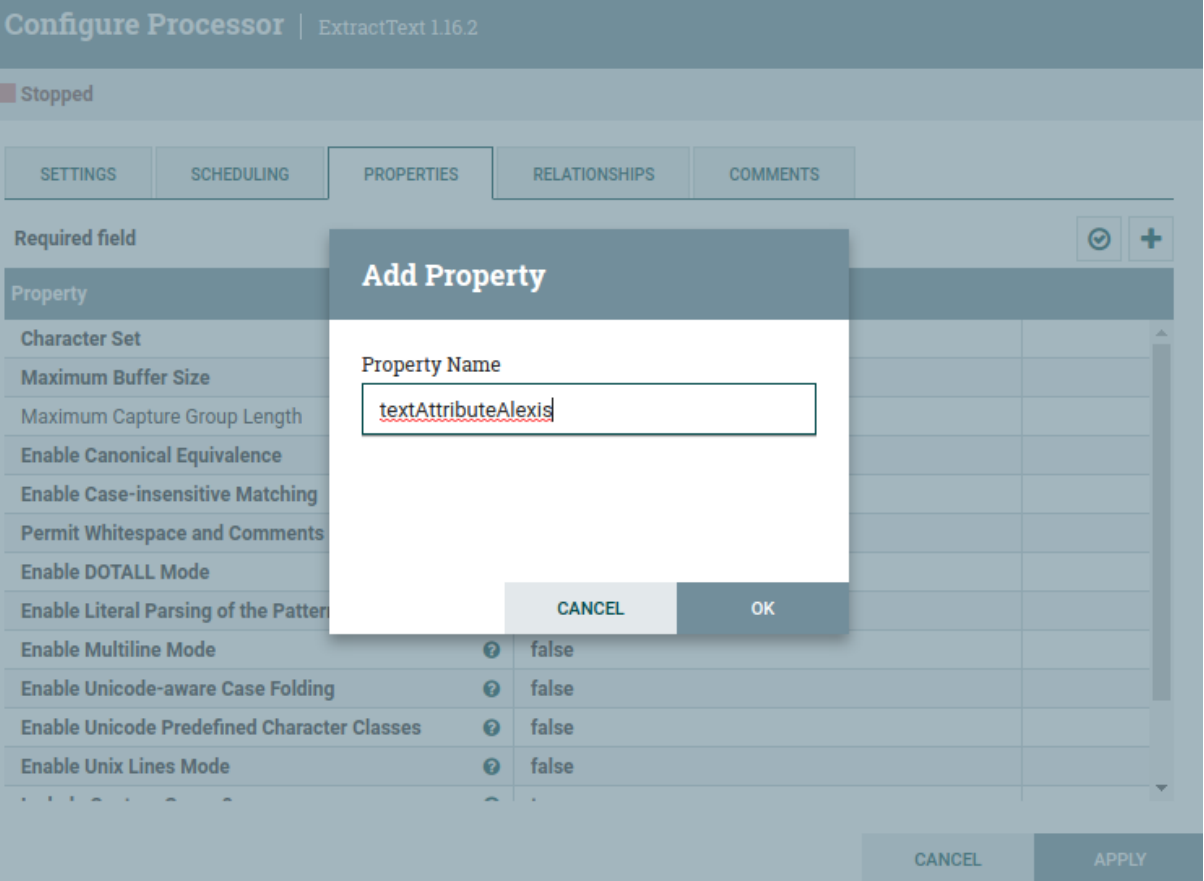
Within Group

NIFI Flow

CANCEL

ADD

Nos vamos a la configuración de ExtractTextAlexis2 y en propiedades le damos a crear nuevo atributo



Configure Processor | ExtractText 1.16.2

Stopped

SETTINGS

SCHEDULING

PROPERTIES

RELATIONSHIPS

COMMENTS

Required field

+

Property		Value
Enable Case-insensitive Matching	?	false
Permit Whitespace and Comments in Pattern	?	false
Enable DOTALL Mode	?	false
Enable Literal Parsing of the Pattern	?	false
Enable Multiline Mode	?	false
Enable Unicode-aware Case Folding	?	false
Enable Unicode Predefined Character Classes	?	false
Enable Unix Lines Mode	?	false
Include Capture Group 0	?	true
Enable repeating capture group	?	false
Enable named group support	?	
textAttributeAlexis		

EL PARAM

1

(.+),(.+),(.+)

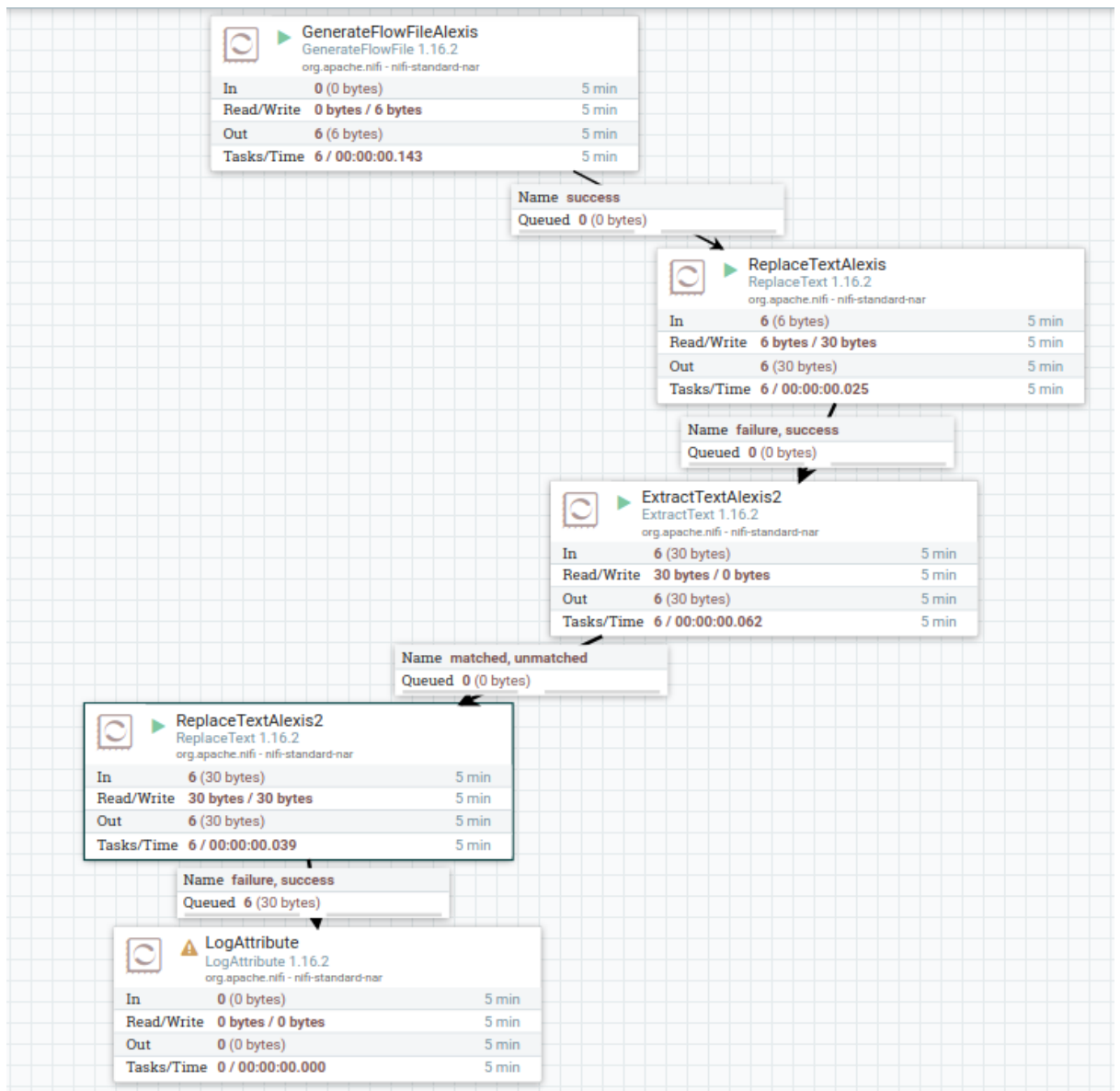
☐ Set empty string

CANCEL

OK

APPLY

Run todos los procesos



Generas FlowFile , reemplazas lo generado.

Extraes lo reemplazado y observamos con el atributo creado

failure, success

Displaying 100 of 112 (560.00 bytes)

The source of this queue is currently i

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration
	1	b1891859-46cb-4bad-b...	b1891859-46cb-4bad-b...	5.00 bytes	00:10:38.500	00:10:44.822
	2	16a17485-3856-4af4-b...	16a17485-3856-4af4-b...	5.00 bytes	00:10:38.485	00:10:44.821
	3	6b4dfbb0-8ff3-4e41-b5...	6b4dfbb0-8ff3-4e41-b5...	5.00 bytes	00:10:34.713	00:10:34.750
	4	fe5972-aaa4-4c7d-88...	fe5972-aaa4-4c7d-88...	5.00 bytes	00:10:29.732	00:10:29.749
	5	4e6e8828-dd59-40ef-a...	4e6e8828-dd59-40ef-a...	5.00 bytes	00:10:24.699	00:10:24.747
	6	2fa39baa-d43e-4b4f-86...	2fa39baa-d43e-4b4f-86...	5.00 bytes	00:10:19.704	00:10:19.733
	7	cd2c9d48-bf61-4dac-9...	cd2c9d48-bf61-4dac-9...	5.00 bytes	00:10:14.699	00:10:14.732
	8	b479748d-0ee2-4b31-b...	b479748d-0ee2-4b31-b...	5.00 bytes	00:10:09.700	00:10:09.728
	9	50283b86-4ecf-45b2-a...	50283b86-4ecf-45b2-a...	5.00 bytes	00:10:04.691	00:10:04.725
	10	0a8b9cc1-a7aa-477f-bf...	0a8b9cc1-a7aa-477f-bf...	5.00 bytes	00:09:59.685	00:09:59.723
	11	488a1613-b4ef-421c-8...	488a1613-b4ef-421c-8...	5.00 bytes	00:09:54.684	00:09:54.720
	12	3935e093-e175-452c-b...	3935e093-e175-452c-b...	5.00 bytes	00:09:44.658	00:09:44.713
	13	5cdaeff3-a19c-48f7-ae...	5cdaeff3-a19c-48f7-ae...	5.00 bytes	00:09:39.684	00:09:39.701
	14	4cb7259a-74e8-4a50-a...	4cb7259a-74e8-4a50-a...	5.00 bytes	00:09:24.664	00:09:24.692
	15	5d751cf7-13c5-4bb7-9...	5d751cf7-13c5-4bb7-9...	5.00 bytes	00:09:19.633	00:09:19.664
	16	9e8a36de-b407-403a-a...	9e8a36de-b407-403a-a...	5.00 bytes	00:09:14.649	00:09:14.661
	17	ce29d5bd-bd26-4a8b-8...	ce29d5bd-bd26-4a8b-8...	5.00 bytes	00:09:09.636	00:09:09.660

Los detalles que nuestro atributo creado y la extracción.

FlowFile

DETAILS

ATTRIBUTES

Attribute Values

filename

b1891859-46cb-4bad-b4fe-99468157418b

path

./

textAttributeAlexis

a

textAttributeAlexis.0

a,|,e

textAttributeAlexis.1

a

textAttributeAlexis.2

|

textAttributeAlexis.3

OK

Por último el proceso del último Replace , que lo reemplace tipo Json

Configure Processor | ReplaceText 1.16.2

Stopped

SETTINGS | SCHEDULING | PROPERTIES | RELATIONSHIPS | COMMENTS

Required field

Property	Value
Search Value	(?s)(^.*\$)
Replacement Value	\$1
Character Set	UTF-8
Maximum Buffer Size	
Replacement Strategy	Always Replace
Evaluation Mode	
Line-by-Line Evaluation Mode	

Always Replace

CANCELOK

Configure Processor | ReplaceText 1.16.2

Stopped

SETTINGS | SCHEDULING | PROPERTIES | RELATIONSHIPS | COMMENTS

Required field

Property	Value
Search Value	
Replacement Value	
Character Set	
Maximum Buffer Size	
Replacement Strategy	
Evaluation Mode	
Line-by-Line Evaluation Mode	

EL ✓PARAM ✓

1 {
2 "filed1": "\${testAttributeAlexis.1}",
3 "filed2": "\${testAttributeAlexis.2}",
4 "filed3": "\${testAttributeAlexis.2}",
5 }

☐ Set empty string

CANCELOK

CANCELAPPLY

Le damos a descargar el flowFile generado reemplazandolo con formato json

failure, success

Displaying 40 of 40 (1.09 KB)

The source of this queue is currently running. This listing may no long

	Position	UUID	Filename	File Size	Queued Duration	Lineage Duration	Penalized	
	16	21e13eaf-0ff4-4e5c-a8...	21e13eaf-0ff4-4e5c-a8...	28.00 bytes	00:00:30.856	00:00:30.887	No	
	17	591c877a-16cd-4d13-9...	591c877a-16cd-4d13-9...	28.00 bytes	00:00:25.858	00:00:25.886	No	
	18	1a7e5f59-4b94-414d-8...	1a7e5f59-4b94-414d-8...	28.00 bytes	00:00:20.878	00:00:20.886	No	
	19	d6b9b068-5d78-4812-a...	d6b9b068-5d78-4812-a...	28.00 bytes	00:00:20.867	00:00:20.886	No	
	20	742280f7-7b85-4c0e-a...	742280f7-7b85-4c0e-a...	28.00 bytes	00:00:15.860	00:00:15.884	No	
	21	976497be-4d38-4750-9...	976497be-4d38-4750-9...	28.00 bytes	00:00:10.865	00:00:10.883	No	
	22	29395bc0-b251-41c1-8...	29395bc0-b251-41c1-8...	28.00 bytes	00:00:05.854	00:00:05.880	No	
	23	f752f82c-2ee5-4407-8f...	f752f82c-2ee5-4407-8f...	28.00 bytes	00:01:35.004	00:01:40.907	No	
	24	398d03a6-dee5-429f-9...	398d03a6-dee5-429f-9...	28.00 bytes	00:01:34.996	00:01:40.906	No	
	25	1c9deda8-39aa-44c3-8...	1c9deda8-39aa-44c3-8...	28.00 bytes	00:01:30.883	00:01:30.905	No	
	26	e2b125c5-a84c-48a2-b...	e2b125c5-a84c-48a2-b...	28.00 bytes	00:01:25.871	00:01:25.901	No	
	27	72dd5510-18cf-4311-9...	72dd5510-18cf-4311-9...	28.00 bytes	00:01:20.875	00:01:20.900	No	
	28	7a9c8679-78b9-4d81-9...	7a9c8679-78b9-4d81-9...	28.00 bytes	00:01:15.888	00:01:15.899	No	
	29	49cf26d0-8598-4645-8...	49cf26d0-8598-4645-8...	28.00 bytes	00:01:10.883	00:01:10.899	No	
	30	d6ed7676-8c4d-4346-a...	d6ed7676-8c4d-4346-a...	28.00 bytes	00:01:05.876	00:01:05.897	No	
	31	16e01bfb-a5d0-4afe-b5...	16e01bfb-a5d0-4afe-b5...	28.00 bytes	00:01:00.882	00:01:00.896	No	
	32	4141af8e-f49a-4468-83...	4141af8e-f49a-4468-83...	28.00 bytes	00:00:55.877	00:00:55.895	No	
	33	974fa9b5-1ff3-4516-89...	974fa9b5-1ff3-4516-89...	28.00 bytes	00:00:45.875	00:00:45.892	No	
	34	da2ddac0-980c-4909-8...	da2ddac0-980c-4909-8...	28.00 bytes	00:00:40.874	00:00:40.890	No	

21e13eaf-0ff4-4e5c-a8d0-974d7e5f869a (~/Descargas) - gedit

Abrir ▾

```
{
"filed1":"a",
"filed2":"l",
"filed3":"e"
}
```

